

| | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | gcgctctcac | ccctcagcgg | gcggcggtga | gtgcgcacgg | ccagcgcgcg | cgtgggacgg |
| 61 | acggcgggctg | aagcgccgag | ctgcaacgct | gcaccggttc | ctagagtcta | aaagaagttcc |
| 121 | gaggttagagt | acccctccaa | AATGGCTGCT | ATTAAAGGAT | AGAGAGAGAT | GGAGAGATGCC |
| 181 | AAGAGAAAAA | GGAAAGCATT | CAGCAGACGC | CATGAGCCTA | AGGAGCCAGA | CGAGTTTGAGA |
| 241 | AAGCTGTGTA | TTGAGAGTCT | GAGCTTCGAG | ACGACGGATG | ATAGCTTGAG | AGAGCACTTTC |
| 301 | GA AAAATGGG | CTCAGCTCAG | CGACTGTGTG | TCGTATGAGAG | ACCCACAARAC | AARACGTTCC |
| 361 | AGAGGCTTTG | GCTTTGTTCAT | TACTGTGTGC | TGTGAAAGAG | TGGATTCGGC | CATGGACGGCT |
| 421 | CGACCACTA | AGGTGGATGG | AGCTGTGTTT | GAACCAAGA | GAGCAGTTTC | AGAGGAGGAT |
| 481 | TCTGTA AAGC | CTGGGGCGCA | TCTCACAGTA | AAGAAAAATAT | TTGTTGGTGG | CATTAAAGAA |
| 541 | GATACAGAAG | AATATAAATT | AAGGGGGTAC | TTTGAACACT | ATGGCAAGAT | CGAAACGATA |
| 601 | GAAGTCAATG | AAGACAGATA | AAGTGGGAAG | AAAGAGCGCT | TCGCTTTTGT | AAGCTTTTAT |
| 661 | GATCAGCATA | CAGTTGATATA | AATTTGTGTT | CAGATAATAC | ATACTATAAA | TCGCTATAAC |
| 721 | TGCGAAGATA | AAAAAGCACT | CTCAAAACAA | GAGATCGACA | CTCGACGCTC | TGAGCAGAGT |
| 781 | CGTGGGGGTG | TTTCAGGCCA | CTTCATTGGT | CGTGGA AATT | TTGGAGGTGG | TGGAGGAAAC |
| 841 | TTTGGCCGAG | GAGGA AACTT | TGGTGGAAAG | GAGGCGTATG | GGGGTGGTGG | TGGGGTGGT |
| 901 | GGGAGCAGAG | GAGGCTTTGG | GGGTGGTATG | GAGATACAAG | GATTTTGGTA | TGCTGGCAAC |
| 961 | TATGGAGGTG | GTCTTGGCTA | TGGCAGCAGA | GGGGGTTAT | GTGGTGGTGG | AGGACCCAGA |
| 1021 | TATGGA AACC | CAGGTGGTGG | ATATGGAGGT | GGGAGGAGAG | GATATGGTGG | CTCAATGAA |
| 1081 | GGAGGCAATT | TTGGAGGTGG | TAAATTATGA | GGCAGTGGAA | ACTACAATGA | CTTTGGTAAC |
| 1141 | TAGCATTGAC | AGCAGCAATC | CAATTAGCTG | CCCATGAAAG | GTGGTGGCAG | TTTTGGTGTG |
| 1201 | AGAAAGTTCAG | CGAGTCCCTA | TGTTGGTGGT | TATGAGTCTG | GAAGTGGGAG | TGGGGGCTAT |
| 1261 | GGTGGTAGAA | GATTCTAaaa | atgctaccag | aaaaaaggct | acagttctta | gcaggagaga |
| 1321 | gagcgagagag | gttgcagaaa | acgtcgaagt | ctactttgaga | cagtcgtccc | aaagtcatta |
| 1381 | gaggaactgt | aaactcttgc | acagaaaggaa | cagttatcca | tagtcaaaaa | agttactgca |
| 1441 | gcttaaaacag | gaaaccccttc | gttctcaaga | ctgtcatatgc | cacagtttgc | aaaaagagca |
| 1501 | gctatttggt | aatgcaattg | atggtcggtta | gatgtacatc | ctagagtttc | tatctgtgtg |
| 1561 | agcttttgtct | tctctttttt | tttttttttt | ccattacatc | caggtatatc | gccctgttaa |
| 1621 | tttgttgtagt | ggtaccaggaa | ataaaacaaat | taagggaatt | ttggtcttttc | aaaaaataaa |
| 1681 | aaaaaataaa | | | | | |

| | | |
|-------|---|------|
| CHKA1 | - MAAIKEEREVEDYKRRKRITISTGHEPKEPEQLRKLFIGGLSFET <u>TDDSLR</u> | -50 |
| HUMA1 | - M-----SKSES PKPEPEQLRLFLTGGLS FETTDES LR | -31 |
| CHKA1 | - <u>EQFEKGWTLTDCVVMRD</u>POTKRSGFGFVTYS SCVEEVDAA MSARPHKVDG | -100 |
| HUMA1 | - SHFEQGWTLTDCVVMRD PNTKRSRGFGFVTYATVEE VDAA MNARPHKVDG | -81 |
| CHKA1 | - RVVEPKRAVSREDSVKPGAHLTVKKIFVGGIKEDTEEYNLGRGYFETYGKI | -150 |
| HUMA1 | - RVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKI | -131 |
| CHKA1 | - ETIEVME DRSGKKRGFAFVTFDHD TVDKIVVQKYHTINGHNCE DKKAL | -200 |
| HUMA1 | - EVIEIMTDRSG KKRGFAFVTFDHD SVDKVIQKYHTVNGHNC EVKAL | -181 |
| CHKA1 | - SKQEMQTASS-QRGRGGSGNFMGRGNFGGGG-----NFGRGGNFGG | -242 |
| HUMA1 | - SKQEMASASS SRGRSGS -----GNFGG RGGGFGGNDNFRGGNGFSG | -224 |
| CHKA1 | - RGGYGGGGGGGGSGSGFGGEGDYNGFGDGNGNYGGGPYGSGRGGYGGGGGP | -292 |
| HUMA1 | - RGGFGGSGRGGGYGGS-----GDGYN GFCGNDGS ----- | -252 |
| CHKA1 | - GYGNPGGYGGGGGGYGGYN EGGNFGGSGNYND FGNYSCQQQS SNY | -342 |
| HUMA1 | - ----- NFGGGGSYNDFGNYN QS-SNF | -273 |
| CHKA1 | - GPMKGGSGFGRSSGS PYGGG -----YGSGSGSGGYG-GRRF | -378 |
| HUMA1 | - GPMKGG-NFGRSSG-PYGGGGQYFAKPRNQGGYGGSSSSSY YGSGRF | -320 |

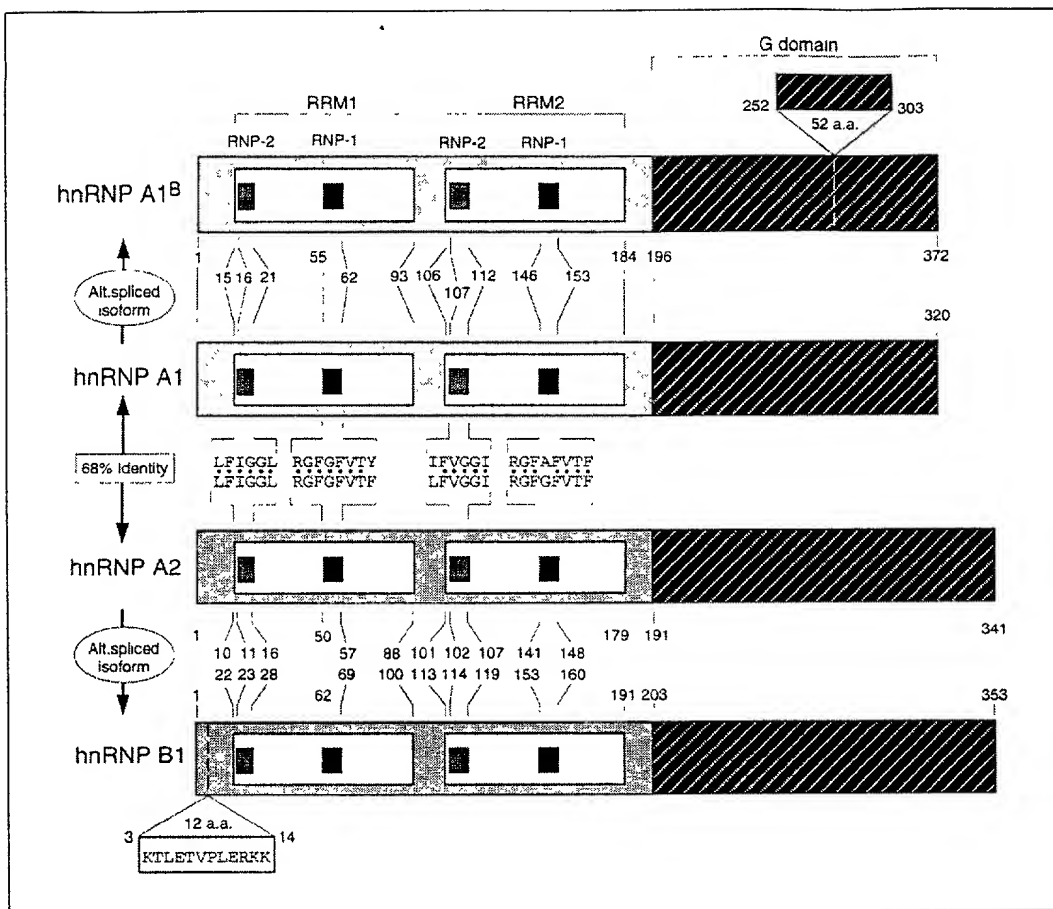


Fig. 2

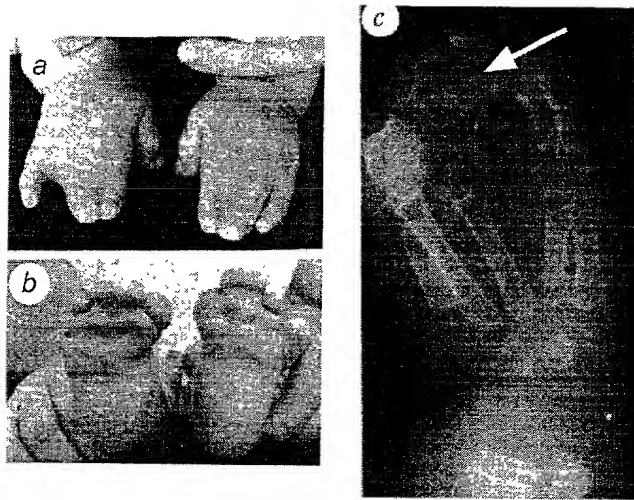


Fig. 3

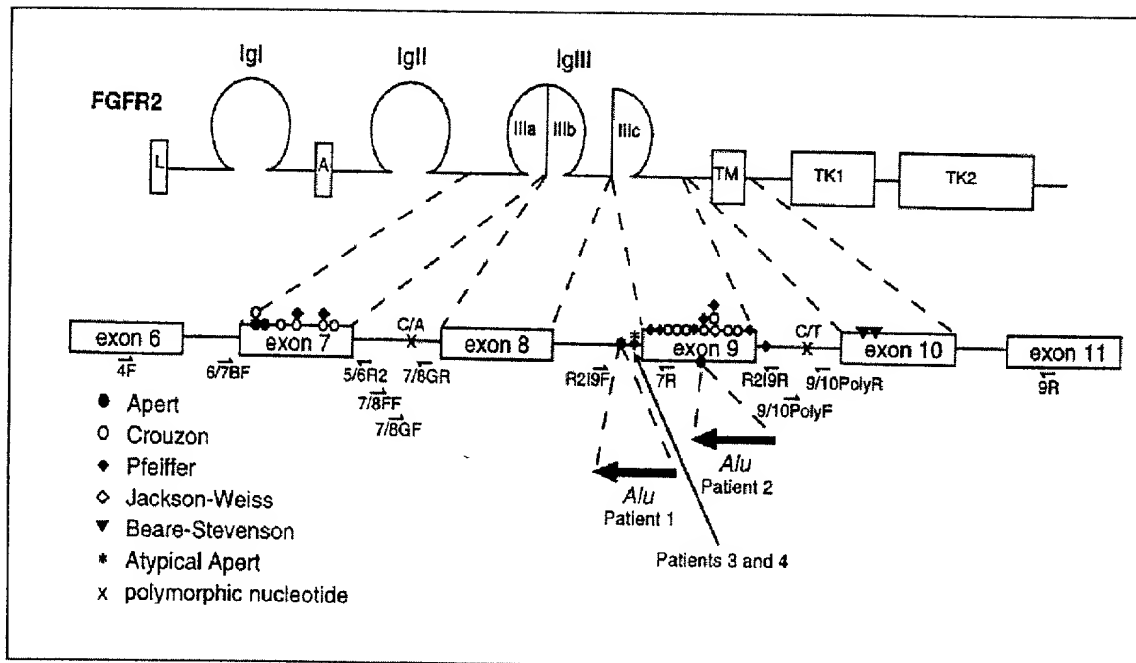
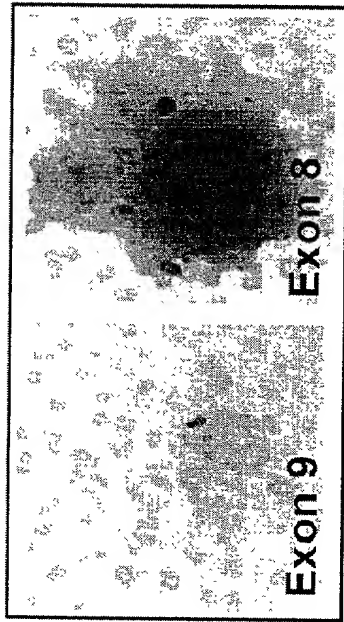
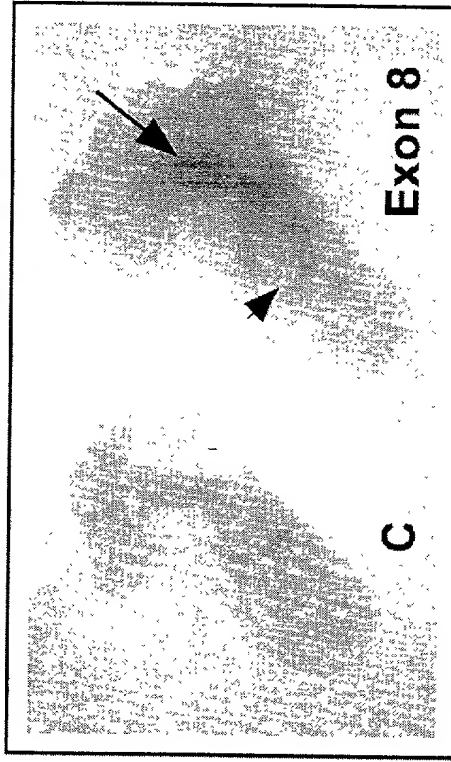


Fig. 4

A.



B.



C.

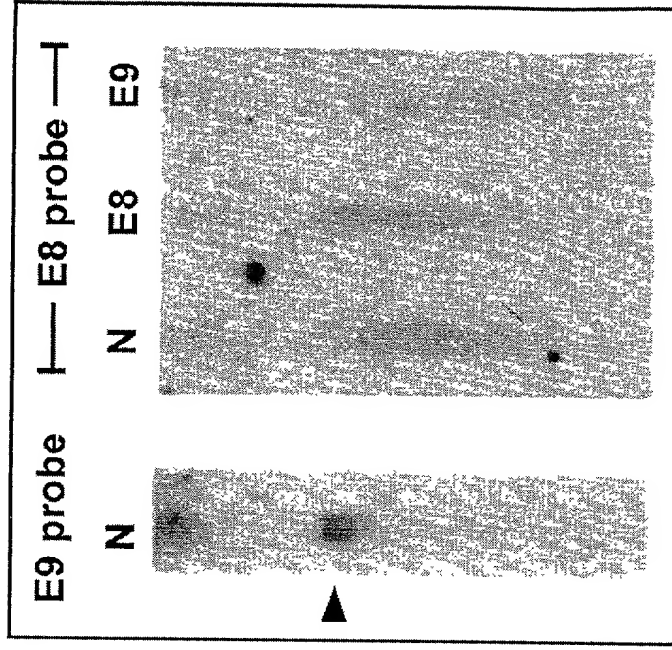


Fig-5